



ARKANSAS  
Department of Environmental Quality

March 2, 2005

Jean Mescher, Project Coordinator  
McKesson Corporation  
One Post Street  
San Francisco, CA 94104-5296

RE: Proposed Ozone Pilot System  
Arkwood, Inc. Site, Omaha, Arkansas

Dear Ms. Mescher:

Your proposal to conduct a pilot study injecting ozonated water at the Arkwood Site was received by ADEQ on February 9, 2005. ADEQ admires your initiative to try to reduce/eliminate the source of PCP contamination of the New Cricket Spring.

We feel that since McKesson is going to submit design specifications and an implementation schedule, our questions/comments may be already answered in the specifications when it is submitted. However, the following are our review comment/questions on your proposal.

1. Provide a map showing locations of injection wells.
2. Provide construction details of injection wells.
3. Provide rationale for choosing the depth of the injection wells to be approximately 25 feet.
4. Specify rates and amount of ozone to be injected; and, flow directions (inflow and outflow from the site) of the spring
5. Provide specific breakdown pathways, both intermediate and final for oxidation of the PCP. The example in the proposal is for the oxidation of ethene to formaldehyde. Show how PCP would be oxidized or the resulting compounds. Would Cl ions or HCl be formed? How will that affect the pH?

If you have any questions, please call me at (501) 682-0852.

Sincerely,

A handwritten signature in cursive script, appearing to read "Masoud Arjmandi", is written over the typed name.

Masoud Arjmandi  
Engineer II, Inactive Sites Branch, Hazardous Waste Division

CC: Mike Bates, Chief, HWD  
Shawn Ghose, EPA RPM, Region 6, 6SF-AP  
Kin Siew, Engineer Supervisor, Inactive Sites Branch, HWD  
Jerry Neill, Geologist, P.G., Inactive Sites Branch, HWD

HAZARDOUS WASTE DIVISION